

## FORMULATION

**Jarchem™ High Viscosity Hydrating Hand Sanitizer Gel**  
**Formula No. JY01263**  
**Natural Origin Content: 100% (ISO 16128-2:2017)**

| PHASE    | INGREDIENTS               | INCI NAME                 | FUNCTION               | %          | SUPPLIER       |
|----------|---------------------------|---------------------------|------------------------|------------|----------------|
|          | Water                     | Aqua                      | Solvent                | 39.3       | -              |
| <b>A</b> | <b>Actique™ Hyal Max*</b> | <b>Sodium Hyaluronate</b> | <b>Hydrating Agent</b> | <b>0.7</b> | <b>Jarchem</b> |
|          | Ethanol                   | Ethanol                   | Antispetic             | 60.0       | -              |

### PROCEDURE:

1. Add **Actique™ Hyal Max**, water, and water to a main vessel, use homogenzier to mix until uniform.
2. Add ethanol, continue mixing until fully incorporated.

Note: The procedure is cold processing.

### ALTERNATIVE PROCEDURE(no homogenizer):

1. Add **Actique™ Hyal Max** and 30% water to a main vessel, mix until uniform.
2. Keep stirring, add rest of water, then ethanol slowly to the vessel.  
 If clumps exist in the end, wait overnight to allow it to be fully hydrate.

Note: The procedure is also cold processing, but require more time processing than the first procedure.

\* Molecular weight: 1.5-2.6 M Da

Appearance: Clear gel

Viscosity: 10,000-17,000mPas

(Viscosity: 3000-11,000 mPas if use 0.6% **Actique™ Hyal Max**)

Effective: 03/27/2020

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